Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

No: Second and Part Bill (For Other Works) Date.....20

Division: **Yelahanka** Sub-Division: **Project Sub Division**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account: **Work Code:** 003-23-000006

Est.Cost- **1600.00 Lakhs**

Name of Work: **"PACKAGE NO-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants"**

Name of Contractor and Full Address : **Sri. K Gopireddy, No.03, 1st cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045**

Reference to Agreement No: **EE(Project)/Ynk Zone/WO/020/2022-23** Date: 03-09-2022

Certified that the measurements were taken by me on 18/01/2023 and recorded of Pages 63820 to 63821 of measurement Book No. 6383 and that the work is satisfactorily executed.

Contractor G Reddy **Officer-in-charge of work**

Certified that the measurement were taken by me on 18/01/2023 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

G Reddy - 11610300-00
Balaji - 48835200-00

Asst. Executive Engineer
Project Division
Sub-Division Officer
Yelahanka Zone
BBMP, Bangalore - 92

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	

BA	67265100-00
I/E	673000-00
Cem	600600-00
Steel	600600-00
CF	67300-00
Lent	673000-00
LQ	379400-00
unadjustments items.	3193900-00
Total amount adjusted -	6407800-00

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Contractor's Signature

Witness
1.
2.
Dated Signature of Contractor
Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Stamp

(For use in the Office)

Head of Account 3877

Audited & admitted for Rs. 67265100

6407800-00

.....by Cheque

and Rs. 3193900-00 by Adjustment

Executive Engineer

Initials of Officer making payment

Acct. Clerk Project Division

Acct. Supdt

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ABSTRACT

Item No	Description	unit	Approved Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1 By Manual Means and as per the directions of the Engineer-in-charge of the work	Cum	34.47	760.00	26198.00	0.00	760.00	0.00	0.00	760.00	0.00	0.00	0.00	
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead (iii) Dismantling Stone Masonry B Rubble stone masonry in cement mortar.and as per the directions of the Engineer-in-charge of the work	Cum	5.78	500.00	2890.00	0.00	500.00	0.00	0.00	500.00	0.00	0.00	0.00	
3	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. and as per the directions of the Engineer-in-charge of the work	Cum	6240.92	190.00	1185775.00	2562.67	190.00	486908.00	1355.96	190.00	257633.00	3918.63	744541.00	
4	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications and as per the directions of the Engineer-in-charge of the work	Cum	693.45	6010.00	4167635.00	385.34	6010.00	2315864.00	236.31	6010.00	1420244.00	621.65	3736108.00	
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building. Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) and as per the directions of the Engineer-in-charge of the work	Cum	1875.79	6878.00	12901684.00	813.83	6878.00	5597551.00	445.88	6878.00	3066757.00	1259.71	8664308.00	
6	Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications and as per the directions of the Engineer-in-charge of the work	tonne	106.41	108185.05	11511988.00	43.59	108185.05	4715687.00	27.99	108185.05	3028392.00	71.58	7744079.00	
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) and as per the directions of the Engineer-in-charge of the work	Cum	39.20	5677.20	222547.00	0.00	5677.20	0.00	0.00	5677.20	0.00	0.00	0.00	
8	Providing and Fixing pre cast covering Slab 100mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)	Sqm	6688.95	2106.15	14087933.00	2698.66	2106.15	5683778.00	1235.07	2106.15	2601243.00	3933.73	8285021.00	

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Item No	Description	unit	Approved Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
9	Providing and Fixing pre cast covering Slab 230mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)	Sqm	129.27	5120.50	661928.00	17.46	5120.50	89404.00	50.46	5120.50	258381.00	67.92	347785.00	
10	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paidseparately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates and as per the directions of the Engineer-in-charge of the work	Cum	215.94	6382.48	1378233.00	0.00	6382.48	0.00	38.30	6382.48	244424.00	38.30	244424.00	
11	Providing and fixing pre cast solid cement concrete Kerb Stones made out of M20 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading, unloading, lead and lift transportion etc., complete as directed by the Engineer in charge of the work(from finish concrete and no painting to be done)(Data Rate)	Nos	8189.00	515.38	4220447.00	0.00	515.38	0.00	2331.00	515.38	1201351.00	2331.00	1201351.00	
12	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces and as per the directions of the Engineer-in-charge of the work	Sqm	1289.40	89.00	114757.00	0.00	89.00	0.00	355.67	89.00	31655.00	355.67	31655.00	
13	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - 1) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications and as per the directions of the Engineer-in-charge of the work	Sqm	1251.20	1117.20	1397841.00	0.00	1117.20	0.00	0.00	1117.20	0.00	0.00	0.00	
14	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth and as per the directions of the Engineer-in-charge of the work	Cum	8872.22	68.06	603844.00	2515.46	68.06	171202.00	5471.41	68.06	372386.00	8066.87	544968.00	
15	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately and as per the directions of the Engineer-in-charge of the work	Cum	57.24	441.84	25291.00	0.00	441.84	0.00	0.00	441.84	0.00	0.00	0.00	
16	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading,grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work and as per the directions of the Engineer-in-charge of the work	Cum	425.38	420.85	179023.00	0.00	420.85	0.00	0.00	420.85	0.00	0.00	0.00	

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Item No	Description	unit	Approved Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
17	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (For Grading -V Material) and as per the directions of the Engineer-in-charge of the work	Cum	4418.56	2457.30	10857728.00	1257.73	2457.30	3090615.00	2727.83	2457.30	6703694.00	3985.56	9793709.00	
18	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates and as per the directions of the Engineer-in-charge of the work	Cum	4975.21	5616.08	27941178.00	1257.73	5616.08	7063501.00	2745.71	5616.08	15420104.00	4003.43	22483605.00	
19	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete as per the directions of the Engineer-in-charge of the work.	Cum	4975.21	7158.31	35614096.00	1257.73	7158.31	9003207.00	2745.71	7158.31	19654614.00	4003.43	28657821.00	
20	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. and as per the directions of the Engineer-in-charge of the work	m	12367.60	73.29	906422.00	2941.40	73.29	215576.00	4129.45	73.29	302648.00	7070.85	518224.00	
21	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (approx. 25% larger than the initial 3 mm.to 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8mm.wide). and as per the directions of the Engineer-in-charge of the work	m	12367.60	172.90	2138359.00	2941.40	172.90	508569.00	4129.45	172.90	713982.00	7070.85	1222551.00	
22	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum..(Tipper 5.5 m3) and as per the directions of the Engineer-in-charge of the work	Cum	15210.63	123.55	1879274.00	5078.13	123.55	627405.00	6847.37	123.55	845993.00	11925.50	1473396.00	
23	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km and as per the directions of the Engineer-in-charge of the work	t.Km	19469.60	100.51	1956890.00	6500.00	100.51	653316.00	8764.63	100.51	880934.00	15264.64	1534250.00	

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Item No	Description	unit	Approved Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
24	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications and as per the directions of the Engineer-in-charge of the work	Sqm	42.00	1258.48	52857.00	0.00	1258.48	0.00	0.00	1258.48	0.00	0.00	0.00	
25	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete and as per the directions of the Engineer-in-charge of the work	Cum	7.20	2280.00	16416.00	0.00	2280.00	0.00	0.00	2280.00	0.00	0.00	0.00	
26	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates and as per the directions of the Engineer-in-charge of the work	Cum	7.20	6523.65	46971.00	0.00	6523.65	0.00	0.00	6523.65	0.00	0.00	0.00	
27	Providing, laying & fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification and as per the directions of the Engineer-in-charge of the work	Sqm	110.00	1192.53	131179.00	0.00	1192.53	0.00	0.00	1192.53	0.00	0.00	0.00	
28	Executive Bench-Made out of Sadarahalli grey granite stone with hand supports with 3 line finishing with arch/plain design with 100mm slabs height 90x Length 1500 width 45cms (1.50*0.45*0.90m) (Including lead and lift Charges) (inclusive of all taxes) As per the directon of Engineer Incharge. (Data approved rate)	Nos	25.00	18500.30	462508.00	0.00	18500.30	0.00	0.00	18500.30	0.00	0.00	0.00	
29	Fabricating, supplying and erection of .... ms long hot dip Galvanized Octagonal hot dip Pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/s for .....m Pole in single section and single joint welded as per IS 9595/IS10178AWS having dimensions bottom ..... mm , top.... mm with 3 mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the Pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. 6 m - Top 70 mm and Bottom 130 mm dia and as per the directions of the Engineer-in-charge of the work	Each	200.00	10758.75	2151750.00	0.00	10758.75	0.00	0.00	10758.75	0.00	0.00	0.00	

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			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
30	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by	No	200.00	7904.95	1580990.00	0.00	7904.95	0.00	0.00	7904.95	0.00	0.00	0.00	
31	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including econnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of	Each BW	4.00	5382.70	21531.00	0.00	5382.70	0.00	0.00	5382.70	0.00	0.00	0.00	
32	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdem upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimumworking of compressor for one hour (Excluding cost of casing pipes,collars, cap etc., complete) and as per the directions of the Engineer-in-charge of the work	Rmtr	200.00	304.00	60800.00	0.00	304.00	0.00	0.00	304.00	0.00	0.00	0.00	
33	50-100mms (PWD SR 2021-22 Vol-V Page No 151, Item No.1.2)	Rmtr	200.00	380.95	76190.00	0.00	380.95	0.00	0.00	380.95	0.00	0.00	0.00	
34	100-150mms (PWD SR 2021-22 Vol-V Page No 151, Item No.1.3)	Rmtr	200.00	405.18	81036.00	0.00	405.18	0.00	0.00	405.18	0.00	0.00	0.00	
35	150-200mms (PWD SR 2021-22 Vol-V Page No 151, Item No.1.4)	Rmtr	200.00	470.25	94050.00	0.00	470.25	0.00	0.00	470.25	0.00	0.00	0.00	
36	200-250mms (PWD SR 2021-22 Vol-V Page No 151, Item No.1.5)	Rmtr	200.00	551.95	110390.00	0.00	551.95	0.00	0.00	551.95	0.00	0.00	0.00	
37	250-300mms (PWD SR 2021-22 Vol-V Page No 151, Item No.1.6)	Rmtr	200.00	584.25	116850.00	0.00	584.25	0.00	0.00	584.25	0.00	0.00	0.00	
38	300-350mms (PWD SR 2021-22 Vol-V Page No 151, Item No.1.7)	Rmtr	200.00	649.33	129866.00	0.00	649.33	0.00	0.00	649.33	0.00	0.00	0.00	
39	Supply of ISI mark 175mm nominal bore plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fitted with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m. prices include Collar-Medium duty and as per the directions of the Engineer-in-charge of the work	Rmtr	240.00	2023.84	485722.00	0.00	2023.84	0.00	0.00	2023.84	0.00	0.00	0.00	
40	PVC pipes of 10 Kg/cm2 for 200mm and as per the directions of the Engineer-in-charge of the work	m	40.00	1350.90	54036.00	0.00	1350.90	0.00	0.00	1350.90	0.00	0.00	0.00	

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			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
41	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge and as per the directions of the Engineer-in-charge of the work	Each	4.00	171.95	688.00	0.00	171.95	0.00	0.00	171.95	0.00	0.00	0.00	
42	Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete and as per the directions of the Engineer-in-charge of the work	Sq.cm	88000.00	0.39	34320.00	0.00	0.39	0.00	0.00	0.39	0.00	0.00	0.00	
43	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Union confirming to IS 1239-II, 1991 with latest amendments if any and as per the directions of the Engineer-in-charge of the work	Each	4.00	229.29	918.00	0.00	229.29	0.00	0.00	229.29	0.00	0.00	0.00	
44	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any and as per the directions of the Engineer-in-charge of the work	Each	12.00	183.35	2201.00	0.00	183.35	0.00	0.00	183.35	0.00	0.00	0.00	
45	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for and as per the directions of the Engineer-in-charge of the work	Each	12.00	229.29	2752.00	0.00	229.29	0.00	0.00	229.29	0.00	0.00	0.00	
46	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions and as per the directions of the Engineer-in-charge of the work	Job	4.00	6439.10	25757.00	0.00	6439.10	0.00	0.00	6439.10	0.00	0.00	0.00	
47	Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions and as per the directions of the Engineer-in-charge of the work	Job	4.00	1413.60	5655.00	0.00	1413.60	0.00	0.00	1413.60	0.00	0.00	0.00	
48	Supplying of 1.1KV LT UG cable XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm and as per the directions of the Engineer-in-charge of the work	Rmtr	180.00	152.95	27531.00	0.00	152.95	0.00	0.00	152.95	0.00	0.00	0.00	
49	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm and as per the directions of the Engineer-in-charge of the work	Rmtr	180.00	12.35	2223.00	0.00	12.35	0.00	0.00	12.35	0.00	0.00	0.00	
50	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete cutting road surfaces and as per the directions of the Engineer-in-charge of the work	Mtr	180.00	83.35	15003.00	0.00	83.35	0.00	0.00	83.35	0.00	0.00	0.00	
51	Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm and as per the directions of the Engineer-in-charge of the work	Mtr	16.00	340.53	5449.00	0.00	340.53	0.00	0.00	340.53	0.00	0.00	0.00	
52	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia and as per the directions of the Engineer-in-charge of the work	Job	4.00	3926.35	15706.00	0.00	3926.35	0.00	0.00	3926.35	0.00	0.00	0.00	

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Item No	Description	unit	Approved Shedule-B			Previous			Present			Total Upto Date		
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	Remarks
53	Providing,Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3½x6 Sqm and as per the directions of the Engineer-in-charge of the work	Each	4.00	539.60	2159.00	0.00	539.60	0.00	0.00	539.60	0.00	0.00	0.00	
54	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5" and as per the directions of the Engineer-in-charge of the work	Nos	4.00	320.15	1281.00	0.00	320.15	0.00	0.00	320.15	0.00	0.00	0.00	
55	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" and as per the directions of the Engineer-in-charge of the work	Each	4.00	80265.98	321064.00	0.00	80265.98	0.00	0.00	80265.98	0.00	0.00	0.00	
56	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) and as per the directions of the Engineer-in-charge of the work	Each	204.00	3193.43	651460.00	0.00	3193.43	0.00	0.00	3193.43	0.00	0.00	0.00	
57	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 and as per the directions of the Engineer-in-charge of the work	Mtr	2568.00	246.05	631857.00	0.00	246.05	0.00	0.00	246.05	0.00	0.00	0.00	
58	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP and as per the directions of the Engineer-in-charge of the work	Nos	4.00	8782.75	35131.00	0.00	8782.75	0.00	0.00	8782.75	0.00	0.00	0.00	
59	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm and as per the directions of the Engineer-in-charge of the work	Each	4.00	1309.10	5237.00	0.00	1309.10	0.00	0.00	1309.10	0.00	0.00	0.00	
60	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm and as per the directions of the Engineer-in-charge of the work	Each	4.00	1334.75	5339.00	0.00	1334.75	0.00	0.00	1334.75	0.00	0.00	0.00	
61	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box. and as per the directions of the Engineer-in-charge of the work	per 3 Poles	4.00	1309.10	5237.00	0.00	1309.10	0.00	0.00	1309.10	0.00	0.00	0.00	
62	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work and as per the directions of the Engineer-in-charge of the work Qty Upto 125%	Cum	765.00	492.10	376457.00	956.25	492.10	470571.00	0.00	492.10	0.00	956.25	470571.00	
	Qty Above 125%					234.59	491.99	115414.00	0.00	491.99	0.00	234.59	115414.00	

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Item No	Description	unit	Approved Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
63	Providing and installing at site of work 6 Kg/m2: 63mm(weight of pipe - 0.662 kg) P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete and as per the directions of the Engineer-in-charge of the work Qty upto 125%	mtr	1700.00	160.08	272136.00	2125.00	160.08	340170.00	0.00	160.08	0.00	2125.00	340170.00	
	Qty Above 125%					521.30	160.16	83491.00	0.00	160.16	0.00	521.30	83491.00	
64	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications and as per the directions of the Engineer-in-charge of the work Qty Upto 125%	Cum	765.00	129.30	98915.00	956.25	129.30	123644.00	0.00	129.30	0.00	956.25	123644.00	
	Qty Above 125%					234.59	127.71	29959.00	0.00	127.71	0.00	234.59	29959.00	
	Sub Total				**142199579.00**	-	-	**41385830.00**			**57005195.00**		**98391025.00**	
	GST 18%					-	-	~~7449450.00~~			**10260936.00**		**17710385.00**	
	TOTAL AMOUNT					-	-	**48835280.00**			**67266131.00**		**116101410.00**	

Certificate

1.The Work executed by the contractor is found satisfactory

2. The contractor has removed the debris from the work spot

3. Thereare no departmental issues for this work

48835200-00

57004385-00

10260785-00

67265150-00

67265100-00

116100300.00

Contractor

Asst Engineer

Asst Executive Engineer

Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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